

#Code to filter individual EAGLE-I files with MISO county data, and then combine into one dataset

Filter each eaglei_outages_YYYY.csv by FIPS codes in miso_plus_counties.csv
Outputs: eaglei_outages_YYYY_miso_fips_filtered.csv for YYYY = 2014:2024

```
library(data.table)
```

```
# Read overlap once (assumes integer fips_code)  
overlap <- fread("miso_county_overlap_with_areas_calculated.csv")  
fips_set <- unique(overlap$fips_code)
```

```
years <- 2014:2024
```

```
for (yr in years) {  
  in_path <- sprintf("eaglei_outages_%d.csv", yr)  
  out_path <- sprintf("eaglei_outages_%d_miso_fips_filtered.csv", yr)
```

```
  if (!file.exists(in_path)) {  
    warning(sprintf("Missing file: %s (skipping)", in_path))  
    next  
  }  
}
```

```
dt <- fread(in_path) # keeps all original columns  
filtered <- dt[fips_code %in% fips_set]
```

```
fwrite(filtered, out_path)  
cat(sprintf("Year %d: kept %d/%d rows -> %s\n",  
           yr, nrow(filtered), nrow(dt), out_path))  
}
```

```
data2014 <- read.csv("eaglei_outages_2014_miso_fips_filtered.csv")  
data2015 <- read.csv("eaglei_outages_2015_miso_fips_filtered.csv")  
data2016 <- read.csv("eaglei_outages_2016_miso_fips_filtered.csv")  
data2017 <- read.csv("eaglei_outages_2017_miso_fips_filtered.csv")  
data2018 <- read.csv("eaglei_outages_2018_miso_fips_filtered.csv")  
data2019 <- read.csv("eaglei_outages_2019_miso_fips_filtered.csv")  
data2020 <- read.csv("eaglei_outages_2020_miso_fips_filtered.csv")  
data2021 <- read.csv("eaglei_outages_2021_miso_fips_filtered.csv")  
data2022 <- read.csv("eaglei_outages_2022_miso_fips_filtered.csv")  
data2023 <- read.csv("eaglei_outages_2023_miso_fips_filtered.csv")  
data2024 <- read.csv("eaglei_outages_2024_miso_fips_filtered.csv")  
data2024new <- data2024[,-6]  
colnames(data2023)[4] <- "customers_out"
```

```
combineddata <-  
rbind(data2014,data2015,data2016,data2017,data2018,data2019,data2020,data2021,dat  
a2022,data2023,data2024new)  
  
write.csv(combineddata, "eaglei_outages_2014_2024_miso_filtered.csv")
```